

# marantz®

## AV Receiver

### SR5600



Also black available

#### SR5600 AV Receiver

The Marantz SR5600 Digital Surround Receiver is a high-performance, high-power home theatre receiver that offers outstanding home theatre surround sound quality, outstanding video conversion and multiroom with multi-source flexibility. It features DD-EX, DTS ES, Dolby Pro Logic II, Circle Surround II and a HDCD decoder. The 7 times equal power amplifier section, with high current discrete output on all channels will stay each power attack of a film and offering excellent sound quality on music playback from DVD or CD as well. Highly accurate 192kHz/24-bit audio D/A converters handle the analogue to digital conversion, resulting in more faithful sound quality. The SR5600 is built to Marantz standards with refinements such as video conversion, a metal faceplate, video off mode and high grade components. Experience your movies and music in dynamic Marantz style.

# NEW



R A N G E S E R I E S

because music matters

## Features

- Innovative 32-bit Digital Signal Processing with DD-EX, DTS-ES and DPL IIX
- Wide range full discrete 7 channel Current Feedback power amplifiers
- High quality video conversion
- Sound delay function (LipSync)
- Adjustable crossover
- Multiroom with multi source
- Dolby Headphone
- Marantz D-Bus and RS232c connection
- Pre-programmed system remote control

## Benefits

- Provides up to 8 channel audio decoding for any source material at the highest quality
- Excellent frequency response and superb sonic performance for the highest standard such as SACD and DVD-Audio
- The highest analogue quality from all sources connected via a single component connection
- Synchronizing the audio and video signal
- Matching the performance characteristics of the subwoofer to the main speaker system
- Allows independent audio source selection and control in a second room
- Full multichannel enjoyment via your regular stereo headphone
- Full system integration flexibility
- Total system control even of other brand products by using one remote handset

## Technological glossary:

### Power your home theatre

For optimum reproduction of Dolby Digital, DTS, Dolby Pro Logic IIX and Circle Surround reproduction, the SR5600 provides high current, wide band audio amplification, capable of generating 90 watts of discrete power into all 7 channels. With Current Feedback technology and a robust power transformer, the SR5600 has ample capabilities to drive low impedance loudspeakers. Marantz has the 70% power guarantee, meaning that a minimum of 70% of the indicated stereo power will be available when 5 channels are simultaneously used. Further more an extensive array of digital and analogue audio and video connections secure accommodation of a wide variety of multiple program sources. In their drive for perfection our engineers have succeeded in further improving the sound quality and decoding facilities of the SR5600.

### Latest surround technologies

The SR5600 incorporates the most advanced 32-bit Digital Signal Processing circuitry decoding the latest generation of digital surround sound such as Dolby Digital EX, DTS ES, DTS Neo:6, Circle Surround II, and Dolby Pro-Logic IIX.

### Dolby Digital EX

Dolby Digital EX brings a new dimension of depth, spacious ambience and sound localization to home theatre environment.

### DTS-ES

The DTS-ES surround system offering a superb sound quality and a range of formats. The Discrete 7.1 offers the ultimate quality of surround field creation, while the Matrix 7.1 provides compatibility for the existing DTS 5.1 software. And the Neo:6 is to create 7.1 surround stage from any two channel source. DTS 96/24 allows for 5.1 channel sound track encoding at a rate of 96kHz/24 bits on DVD-Video titles.

### Eight channel audio from any source

Pro Logic IIX is the first and only technology to process any native stereo or 5.1 signal into a 6.1- or 7.1- channel output. A product of Dolby's expertise in surround sound and matrix decoding technologies, Dolby Pro Logic IIX is a complete surround sound solution that maximizes the entertainment experience from stereo as well as 5.1-channel encoded sources. Dolby Pro Logic IIX technology features Movie and Music modes that function with 5.1 as well as stereo sources, including 24-bit/192kHz and 24-bit/96kHz sources.

### Dolby Headphone

This technology allows users to listen to music, watch movies, or play video games with the dramatic surround effects of a 5.1-channel soundtrack through any set of headphones.

### Current Feedback power amplification

The Current Feedback amplifier technology fits perfectly with the high requirements set for this Super Audio software providing wide-bandwidth, high-speed reproduction. The impedance at the Current Feedback point is limited resulting in a very low phase shift. The SR5600 therefore can keep the phase compensation via Negative FeedBack (NFB) to a minimum, resulting in high through-rate, excellent transient response and superb sonic transparency for the full bandwidth up to 100kHz. The SR5600 features a fully discrete 7 channel amplifier section capable of delivering 90 watts of high-current amplification, for continuously clean and stable power into each of the 7 channels. Current Feedback amplification is a well known Marantz' original circuit technology accomplishments, from the hi-fi amplifier field.

### Video conversion

SR5600 is equipped with a high quality video conversion. It can up convert the Composite signal to S-Video/Component and S-Video to Component; as well as down conversion from S-Video to composite (the component signal is not down converted). This feature allows you to connect the best possible video cable between the SR5600 and the display and of course you only need one. All the video switching for your several sources will be done by the receiver.

### Experiencing the emotion

Music and sound track reproduction is enhanced through a highly efficient source direct switch, which bypasses the total A/V section in audio mode. In direct mode, interference and disturbance by radiated electrical or magnetic fields are minimized, ensuring the shortest signal path for the highest degree of clarity and detail. For digital signal highly accurate 192kHz/24-bit audio D/A converters take the job, resulting in a far more faithful sound quality. It encompasses the Marantz heritage with refinements such as a metal alloy faceplate, an efficient video off mode and high grade components.

### Functional convenience

The SR5600 is equipped with a 2 Component input terminals to connect your video source through the centre of your home entertainment. It provides one touch switching of video and audio source with a high quality reproduction and feeds useful information onto the screen via the user-friendly OSD. It features heavy duty speaker binding posts and an extensive array of both analog and digital in- and outputs. The SR5600 presents in addition an extensive feature list, such as auto preset tuning (program up to 50 stations), manual station naming, front panel cursor control, delay function and sleep-timer. Other versatile, future ready, custom install friendly features include a multi-channel (7.1) direct input and pre-amp outputs, RS232c interface for software updates and system control, and an intuitive on-screen display for setup and control.

### Multiroom with multi-source

With the Marantz AV system placed in the main room of the house, a second loudspeaker set can be placed in a separate room. In this room an audio source can be selected independently from the main room at a different sound level and with full remote control functionality. The surround back speakers of the SR5600 are assignable for the amplification in the second room. This is only possible if in the main room a 5.1 system is set up. With the SR5600, Marantz allows you to have AV enjoyment throughout the house from a single system setup. Simply everywhere...

### Matching audio and video - Lip Sync

The digital processing and scaling of video displays can create a slight delay in the video signal. This delay makes audio tracks appear out of synch. Using sound delay you can slow the sound presentation to match the presentation of the video. The Sound Delay on the SR5600 adjusts in increments of 10ms steps from 0–200ms.

### Adjustable cross-over

The SR5600 AV receivers provides a choice of 5 crossover frequencies. This lets you 'fine tune' the speaker system by selecting the optimum frequency to ensure a match of the performance characteristics of the subwoofer to the main speaker system

### In Marantz style

To control entire system with one remote handset, Marantz has designed the D-Bus system. The unique Marantz D-Bus connection allows convenient linkage to other Marantz components. Individual devices inform each other and remote control commands are communicated via this bus line, while the RS232c communication port allows full CI integration. The SR5600 comes with an easy to use pre-coded remote control, for full intuitive and extensive system control.

### Environmental friendly

Every electronic equipment product is built of single electrical components that are made of different material and substances. Marantz assure that the components used in our products are free of any dangerous material or substance to keep our environment clean. We have for example removed hazardous substances like lead in the solder.

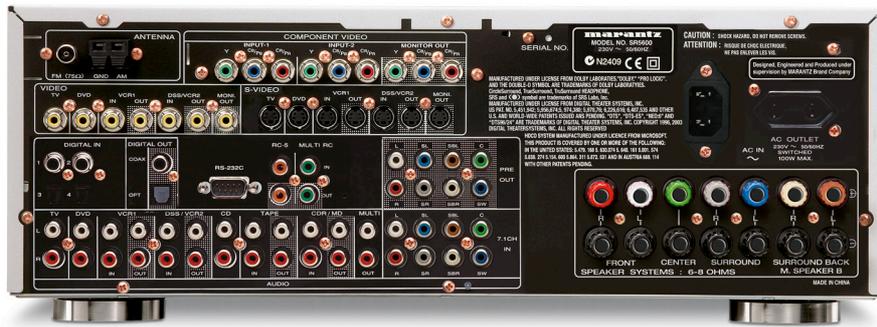
## Bypacked accesories

- User manual
- Power cable
- Remote control
- Batteries
- FM antenna
- AM loop antenna

### RC5500SR



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## FEATURES

### MULTICHANNEL SURROUND

THX Ultra II / Select	-/-
THX Surround EX	-
DTS 5.1 / -ES / 96/24	•/•/•
Dolby Digital / Dolby Digital-EX	•/•/•
DPL / DPL II / DPLiix	•/•/•
Circle Surround II	•
Virtual Surround	•
Multi Channel Stereo	•
HT-EQ / Re-EQ	•/-
Other Surround Modes	-
Headphone Surround	Dolby Headphone
Auto Surround Mode Detection	•
HDCD Decoder	•
WMA Pro / WMA / MP-3 decoder	-/-/-

### SOUND ENHANCEMENTS

Current Feedback Topology	•
Real full channel power drive (70%)	•
Discrete Amplification (All)	•
Pure Direct	•
Power Transformer: Super Ring/ Toroidal/EI	-/-/•
Linear Drive Power Supply (LDPS)	•
Copper Plated Chassis	•
D/A Conversion: 192kHz/24-bit / 96kHz/24-bit	•/-
Digital Signal Processing: 24-bit / Precision 32-bit Decoding / 32-bit / 64-bit	-/-/•/-
Adaptive Double Differential Control/ Quad differential DAC	-/-
Bi-amp drive (5.1 ch setting)	-
Video Off	-
System block shielding: Copper / Metal	-/-
High Grade Audio Components	•
Customised Components	-
HDAM	-
HDAM: Standard / SA / SA2/Current Feedback	-/-/-/-
HDAM cover: Gold plated / Copper plated / Metal /no shield	-/-/-/-
Intelligent Silent Cooling system	-
Chassis : Die-cast / Copper plated / Metal	-/-/•
Chassis Stabilisation Bracing	-
Double Layer Bottom Plate	•

### OTHERS

MRAC (Marantz Room Acoustic Corrections)	-
Easy setup	•
On Screen Display: main / multiroom	•/-
Variable cross over	•

Design and specifications are subject to change by Marantz without notice.

[www.marantz.com](http://www.marantz.com)

Front panel cursor control	•
Video conversion • (CVBS < > S > Comp)	•
Line memory (video conversion)	•
Analogue down mix	•
Multiroom: Shared source / multi source	-/•
Multiroom zones	•
• Speaker A/B	•
• Double tuner	•
• GYRO Touch Tuning	•
• DSD direct conversion	•
• Lip sync control	•
• Random Tuner Presets	•
• RDS: PTY/PS/CT/TA/TP	•/•/-/-/-
• Auto TV Switching (On/Off)	•
• Discrete RC coding	•
• Bi-directional remote control	•
• Low Noise LCD display	•
• Software Upgradable (RS-232)	•
• Bi-directional control via RS232C	•

### IN/OUTPUTS

<b>VIDEO</b>	
• Composite In/Out (incl monitor out)	5/3
• S-Video In/Out (incl monitor out)	5/3
• Component In/Out	2/1
• Gold Plated In/Out (Cinch)	-
• Scart In/Out	-
• DVI in/out	-/-
• HDMI in/out	-/-
• Video processing extension port	-
• Multi-Room Video Out: CVBS / S- Video / Component / other	-/-/-/-
<b>AUDIO</b>	
• Analogue In/out	8/4
• Digital Optical In/Out	2/1
• Digital Coaxial In/Out	2/1
• Multichannel USB	-
• IEEE1394 input (Audio)	-
• Gold Plated In/out	-
• Multi-Room Audio Out	1
• Pre- Amplifier Out (channels)	7.1
• Main Amplifier In	7.1
• Multichannel in channels	7.1
• Multi-Channel In	1
• Headphone Out	1
<b>OTHER</b>	
• Speaker Terminal: Gold plated screw / regular screw (all)	-/•
• Multi-Room Speaker Terminal	•
• Multi-Room D.Bus In/Out	•
• D.Bus In/Out	•
• External IR In / Emitter Out	-/-
• IR Flasher In	•
• RS232C	•

• DC Triggers	-
• AC Outlets (Not for UK Model)	•
• Front Inputs: Audio / Composite / S-Video / Digital (Opt)	•/•/•/-

### SPECIFICATIONS

<b>AUDIO SECTION</b>	
• Power Output (8/4 Ohm RMS)	90/- Watts
• D/A Converter	CS4382
• Digital Signal Processor	CS494003
• Signal to Noise Ratio	105dB
• Frequency Response	8Hz to 100kHz
• (Analogue In)	(+/- 3dB)
• Frequency Response	8Hz to 45kHz (+/- 3dB)
• (Dig In)	3dB
• Total Harmonic Distortion (THD)	0.08%
• Stereo separation	70 dB (kHz)
• Input Sensitivity/ Impedance	168 mV / 47 kOhms
<b>TUNER SECTION FM</b>	
• Frequency Range	87.5 - 108.00 MHz
• Signal to Noise Ratio (mono/ stereo)	75/70 dB
• Distortion Mono/stereo	0.2 / 0.3 %
• Channel Selectivity	+/- 300 kHz / 60 dB
• Usable Sensitivity	IHF 1.8 uV / 16.4 dBf
• Channel Separation	1 kHz 45 dB
<b>TUNER SECTION AM</b>	
• Frequency Range	531 - 1602 kHz
• Signal to Noise Ratio	50dB
• Distortion	400Hz, 30%mod 0.5 %
• Channel Selectivity	+/- 20kHz 70 dB
• Usable Sensitivity	Loop 400 uV
<b>VIDEO SECTION</b>	
• Input level/impedance	1 Vp-p / 75 ohm
• Output level/impedance	1 Vp-p / 75 ohm
• Video frequency response	5-30MHz
• Component video frequency response	5 to 80MHz
• Signal to Noise Ratio	60

### GENERAL

• Available colors: Platinum/Gold/ Silver/Black	-/-/•/•
• Metal Front Panel	•
• Remote Control	RC5500SR
• System Remote Control: Pre- programmed / Learnable/Touch Screen	•/- /-
• Power Consumption	470 Watts
• Detachable Power Cable	•
• Maximum Dimensions	440 x 463 x 163 mm (W x D x H)
• Weight	13kg

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